

UOFGMD.007A



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : James E. Galen) Group Art Unit 1645
App. No. : 09/993,292)
Filed : November 23, 2001)
For : USE OF CLYA HEMOLYSIN)
FOR EXCRETION OF PROTEINS)
Examiner : Unassigned)

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INFORMATION DISCLOSURE STATEMENT

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Dear Sir:

Enclosed is form PTO-1449 listing references that are also enclosed. This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 22 Jul 2002

By:

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UOFGMD.007A	APPLICATION NO. 09/993,292
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Galen	GROUP 1645
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
1	4,235,877	11/25/80	Fullerton			
2	4,355,117	10/19/82	Antrim et al.			
3	4,372,945	2/8/83	Likhite			
4	4,474,757	10/2/84	Arnon et al.			
5	4,665,027	5/12/87	Dale et al.			
6	4,910,139	3/20/90	Chang et al.			
7	5,387,744	2/7/95	Curtiss III, et al.			
8	5,512,480	4/30/96	Sandstrom et al.			
9	5,525,504	6/11/96	Goebel et al.			
10	5,585,266	12/17/96	Plitt et al.			
11	5,635,368	6/3/97	Lommi et al.			
12	6,413,768	7/2/02	Galen			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

EXAMINER INITIAL **OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

13	Atkins, A., N. R. Wyborn, A. J. Wallace, T. J. Stillman, L. K. Black, A. B. Fielding, M. Hisakado, P. J. Artymiuk, and J. Green. 2000. Structure-function relationships of a novel bacterial toxin, hemolysin E. The role of <i>g</i> . <i>J. Biol. Chem.</i> 275:41150-41155.
14	Bramucci, M. G. and V. Nagarajan. 1996. Direct selection of cloned DNA in <i>Bacillus subtilis</i> based on sucrose-induced lethality. <i>Appl. Environ. Microbiol.</i> 62:3948-3953.
15	Corchero, J. L. and A. Villaverde. 1998. Plasmid maintenance in <i>Escherichia coli</i> recombinant cultures is dramatically, steadily, and specifically influenced by features of the encoded proteins. <i>Biotechnol. Bioeng.</i> 58:625-632.
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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
17	del Castillo, F. J., S. C. Leal, F. Moreno, and I. del Castillo. 1997. The <i>Escherichia coli</i> K-12 <i>sheA</i> gene encodes a 34-kDa secreted haemolysin. <i>Mol. Microbiol.</i> 25:107-115.
18	Galen, J. E. and M. M. Levine. 2001. Can a 'flawless' live vector vaccine strain be engineered? <i>Trends in Microbiology</i> 9:372-376.
19	Hess et al., Feb. 1996, <i>Superior efficacy of secreted over somatic antigen display in recombinant salmonella vaccine induced protection against listeriosis</i> , Proc. Natl. Acad. Sci. USA, Vol. 93, pp. 1458-1463
20	Ludwig, A., S. Bauer, R. Benz, B. Bergmann, and W. Goebel. 1999. Analysis of the SlyA-controlled expression, subcellular localization and pore-forming activity of a 34 kDa haemolysin (ClyA) from <i>Escherichia coli</i> K-12. <i>Mol. Microbiol.</i> 31:557-567.
21	Wallace, A. J., T. J. Stillman, A. Atkins, S. J. Jamieson, P. A. Bullough, J. Green, and P. J. Artymiuk. 2000. <i>E. coli</i> hemolysin E (HlyE, ClyA, SheA): X-ray crystal structure of the toxin and observation of membrane pores by electron microscopy. <i>Cell</i> 100:265-276.

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